CLAIMS

WHAT IS CLAIMED IS:

1. A lamp standard for mounting in an air handling system, comprising:

a stand having a plurality of channels, wherein the channels span along the longitudinal axis of the stand; and

a plurality of lamp modules positioned over the channels, wherein the lamp modules comprise a housing and a lamp bulb extending from the housing, and wherein wiring associated with the lamp modules are positioned within the channels.

2. The ultraviolet lamp standard of claim 1 wherein stand further comprises a first groove and a second groove, wherein the first groove and second groove are positioned on opposite sides of the channels.

3. The ultraviolet lamp standard of claim 2 further comprising a top mounting bracket and bottom mounting bracket coupled to a top end and a bottom end of the stand, respectively.

4. The ultraviolet lamp standard of claim 3 further comprising one or more power junction modules coupled to the stand, wherein the one or more power modules are electrically coupled to the plurality of lamp modules.

5. The ultraviolet lamp standard of claim 3 wherein the lamp bulb is an ultraviolet lamp bulb.

6. The ultraviolet lamp standard of claim 1 wherein the plurality of lamp modules are configured so that the lamp bulbs are coaxial.

7. The ultraviolet lamp standard of claim 5 wherein plurality of lamp modules are configured so that the lamp bulbs are nonplanar.

8. The ultraviolet lamp standard of claim 1 wherein the stand further comprises at least one through hole positioned on at least one end of the stand.

9. The ultraviolet lamp standard of claim 1 wherein the plurality of channels are generally V-shaped.

10. An ultraviolet lamp standard for mounting in an air handling system, comprising:

an elongate stand having a first wall intersecting a second wall to form a first pair of opposing channels and a second pair of opposing channels, wherein the first pair and the second pair of channels span along a longitudinal axis of the elongate stand;

a plurality of lamp modules coupled over the channels to define an enclosed space, wherein the lamp modules comprising a housing and an ultraviolet lamp bulb extending from the housing;

one or more power junction modules coupled to the stand, wherein the one or more power modules are electrically coupled to the plurality of lamp modules; and

a top mounting bracket and bottom mounting bracket coupled to a top end and a bottom end of the stand, respectively.

11. The ultraviolet lamp standard of claim 10 wherein the stand further comprises a through hole positioned on at least one end of the stand.

12. The ultraviolet lamp standard of claim 11 wherein a plurality of covers are positioned over exposed portions of the channels.

13. The ultraviolet lamp standard of claim 10 wherein ultraviolet lamp bulbs on lamp modules positioned on opposing channels are coaxial.

14. The ultraviolet lamp standard of claim 10 wherein ultraviolet lamp bulbs on lamp modules positioned on adjacent channels are nonplanar.

15. An ultraviolet lamp standard for mounting in an air handling system, comprising:

a stand having an inner surface, an outer surface, and a plurality of openings spaced along a longitudinal axis of the stand; and

a plurality of lamp modules coupled to the inner surface of the stand, wherein the lamp modules comprising a housing and an ultraviolet lamp bulb extending from the housing and through the openings of the stand.

16. The ultraviolet lamp standard of claim 15 further comprising a top mounting bracket and bottom mounting bracket coupled to a top end and a bottom end of the chamber, respectively.

17. The ultraviolet lamp standard of claim 16 further comprises one or more power junction modules coupled to the inner surfaces of the first stand body or the second stand body, wherein the one or more power modules are electrically coupled to the plurality of lamp modules.

18. The ultraviolet lamp standard of claim 15 wherein the ultraviolet lamp bulbs are coaxial.

19. An ultraviolet lamp standard for mounting in an air handling system, comprising:

a first stand body and a second stand body, the first and second stand body having an inner surface, an outer surface, and a plurality of openings spaced along a longitudinal axis of the first stand body and the second stand body, wherein the first stand body and the second stand body are coupled together to define a chamber; and

a plurality of lamp modules coupled to the inner surfaces of the first stand body and the second stand body, wherein the lamp modules comprise a body and a ultraviolet lamp bulb extending from the housing and through the openings on the first stand body and the second stand body.

20. The ultraviolet lamp standard of claim 19 further comprising a top mounting bracket and bottom mounting bracket coupled to a top end and a bottom end of the chamber, respectively.

21. The ultraviolet lamp standard of claim 20 further comprises one or more power junction modules coupled to the inner surfaces of the first stand body or the second stand body, wherein the one or more power modules are electrically coupled to the plurality of lamp modules.

22. The ultraviolet lamp standard of claim 19 wherein the ultraviolet lamp bulbs are coaxial.

23. A ultraviolet lamp standard for mounting in an air handling system, comprising:

a first stand body and a second stand body, the first and second stand body having an inner surface, an outer surface, and a plurality of openings spaced along a longitudinal axis of the first stand body and the second stand body, wherein the first stand body and the second stand body are coupled together to define a chamber;

a plurality of lamp modules coupled to the inner surfaces of the first stand body and the second stand body, wherein the lamp modules comprise a body and a ultraviolet lamp bulb extending from the housing and through the openings on the first stand body and the second stand body; and

a top mounting bracket and bottom mounting bracket coupled to a top end and a bottom end of the chamber, respectively.

24. A method for minimizing contaminants within a heating, ventilation, air conditioning (HVAC) system, comprising:

providing a lamp standard of claim 1;

locating the lamp standard within the HVAC system;

determining a dosage of ultraviolet light within the HVAC system; and

mounting the lamp standard within the HVAC system.

25. The method of claim 24 further comprising adding a second lamp standard within the HVAC system.

26. The method of claim 24 wherein determining the dosage of ultraviolet light comprises:

determining the number of lamp modules affixed to the lamp standard; and spacing the lamp modules on the lamp standard.

27. A method for minimizing contaminants within a heating, ventilation, air conditioning (HVAC) system, comprising:

providing a lamp standard of claim 19;

locating the lamp standard within the HVAC system;

determining a dosage of ultraviolet light within the HVAC system; and

mounting the lamp standard within the HVAC system.

28. The method of claim 27 further comprising adding a second lamp standard within the HVAC system.

29. The method of claim 27 wherein determining the dosage of ultraviolet light comprises:

determining the number of lamp modules affixed to the lamp standard; and

spacing the lamp modules on the lamp standard.